

**2.0L Gasoline Engine , CAEB,CAED,CDNB,CDZA**

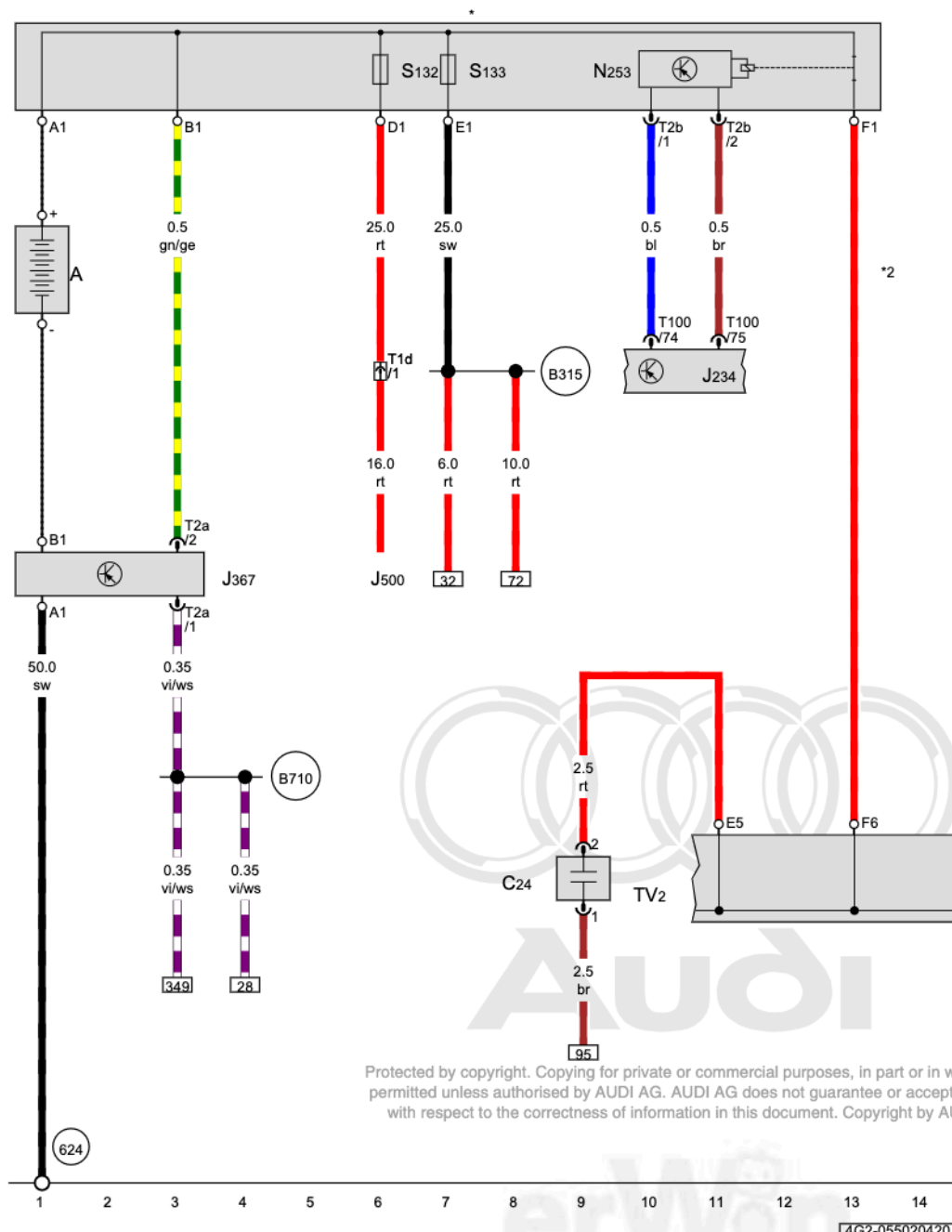
From February 2011

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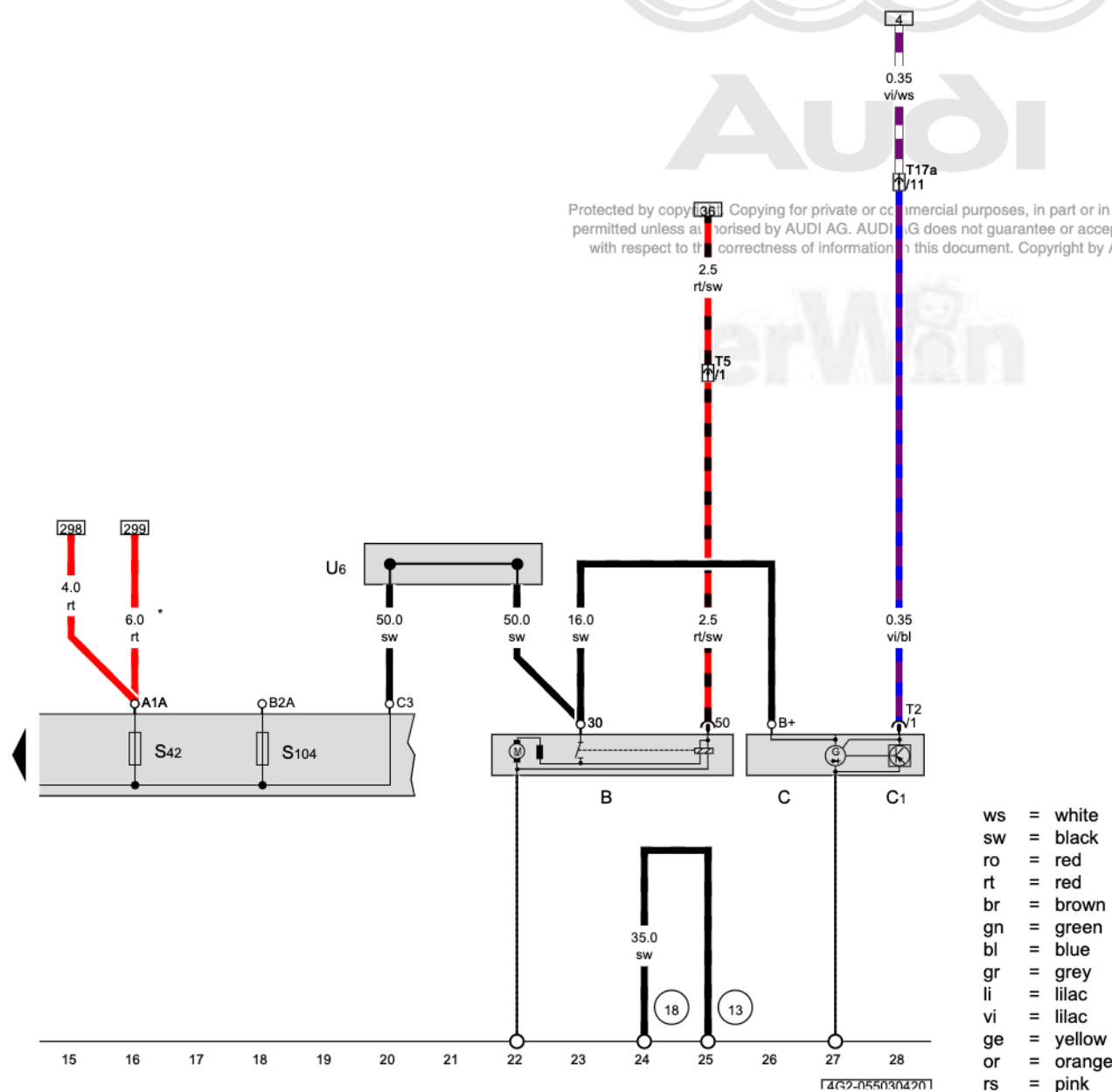
Battery, Suppressor, Battery Monitoring Control Module, Battery Interrupt Igniter



- A Battery
- C24 Suppressor
- J234 Airbag Control Module
- J367 Battery Monitoring Control Module
- J500 Power Steering Control Module
- N253 Battery Interrupt Igniter, Near the Battery
- S132 Safety Fuse 2
- S133 Safety Fuse 3
- T1d 1-Pin Connector, On the Left Front of the Vehicle Floor
- T2a 2-Pin Connector
- T2b 2-Pin Connector
- TV2 Terminal 30 Wire Junction
- T100 100-Pin Connector
- 624 Ground Connection near Starter Battery
- B315 Positive Connection 1 (30a) (in Main Wiring Harness)
- B710 LIN Bus Connection 5 (in Main Wiring Harness)
- \* Main Fuse Carrier in the Right Rear Luggage Compartment, at the Battery
- \*2 Flat Conductor

# Starter, Generator

- B Starter
- C Generator
- C1 Voltage Regulator
- S42 Radiator Fan Fuse
- S104 Radiator Fan Second Speed Fuse
- T2 2-Pin Connector
- T5 5-Pin Connector, In the Center Plenum Chamber
- T17a 17-Pin Connector, Left Plenum Chamber E-Box Connector Station
- U6 Battery Jump Start Terminal
- 13 Ground Connection in Engine/Motor Compartment, Right
- 18 Ground Connection on Cylinder Block
- \* Depending on Equipment



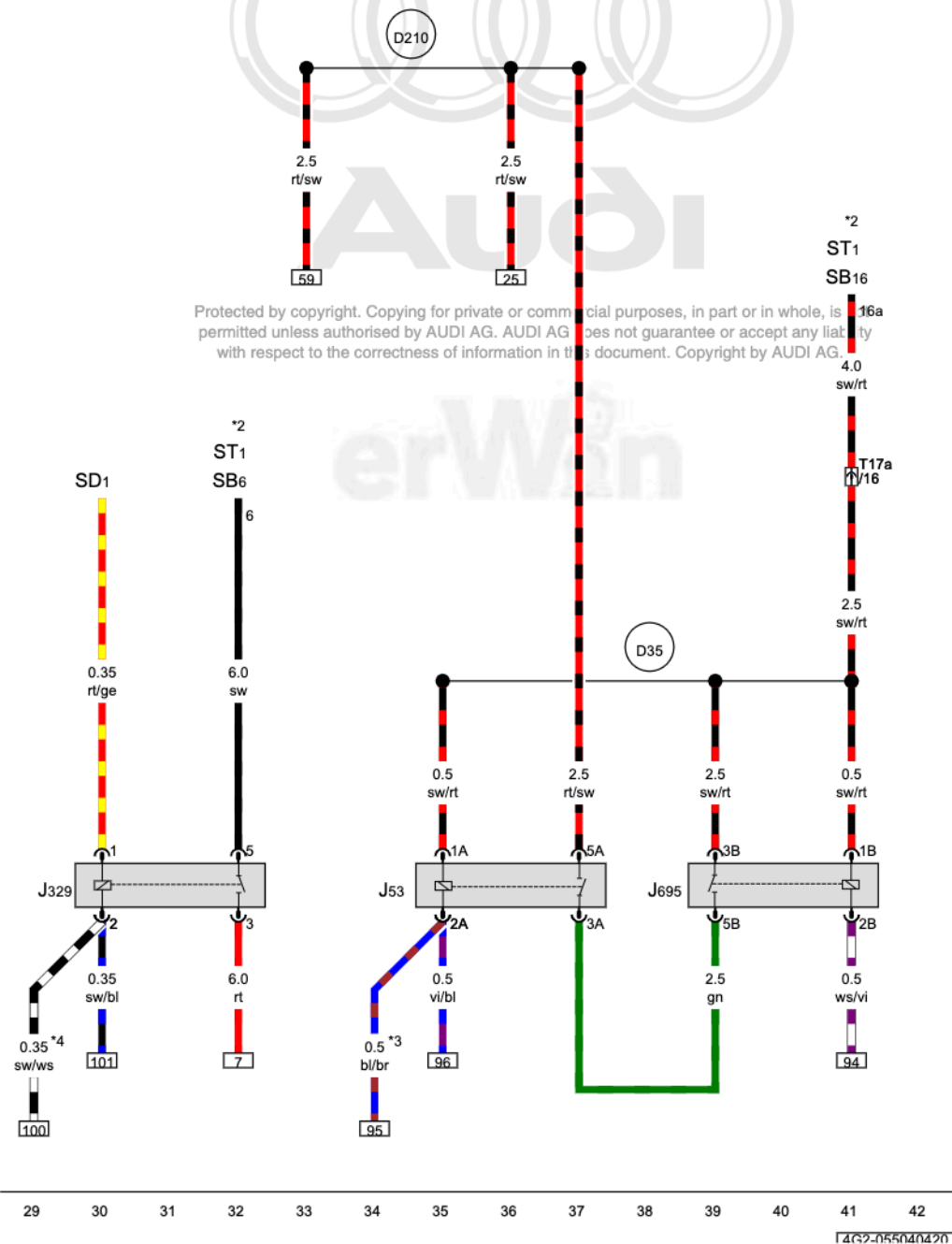
Starter Relay, Terminal 15 Power Supply Relay, Starter Relay 2

- J53 Starter Relay
- J329 Terminal 15 Power Supply Relay
- J695 Starter Relay 2
- ST1 Fuse Panel 1
- SD1 Fuse 1 (On Fuse Panel D)
- SB6 Fuse 6 (On Fuse Panel B)
- SB16 Fuse 16 (On Fuse Panel B)
- T17a 17-Pin Connector, Left Plenum Chamber E-Box Connector Station

D35 Positive Connection 1 (15a) (in Engine Pre-Wiring Harness)

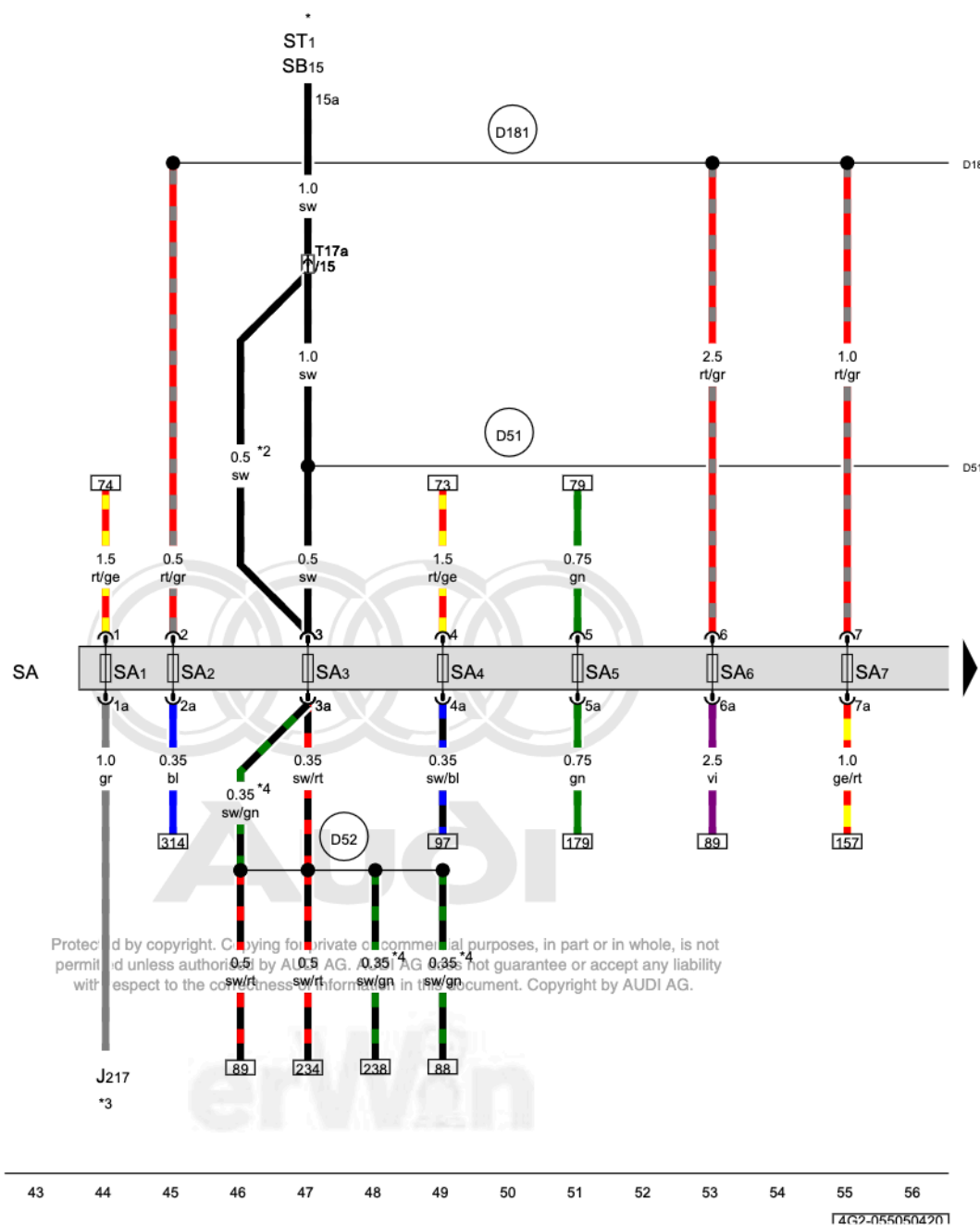
D210 Connection 50 (in Engine/Motor Compartment Wiring Harness)

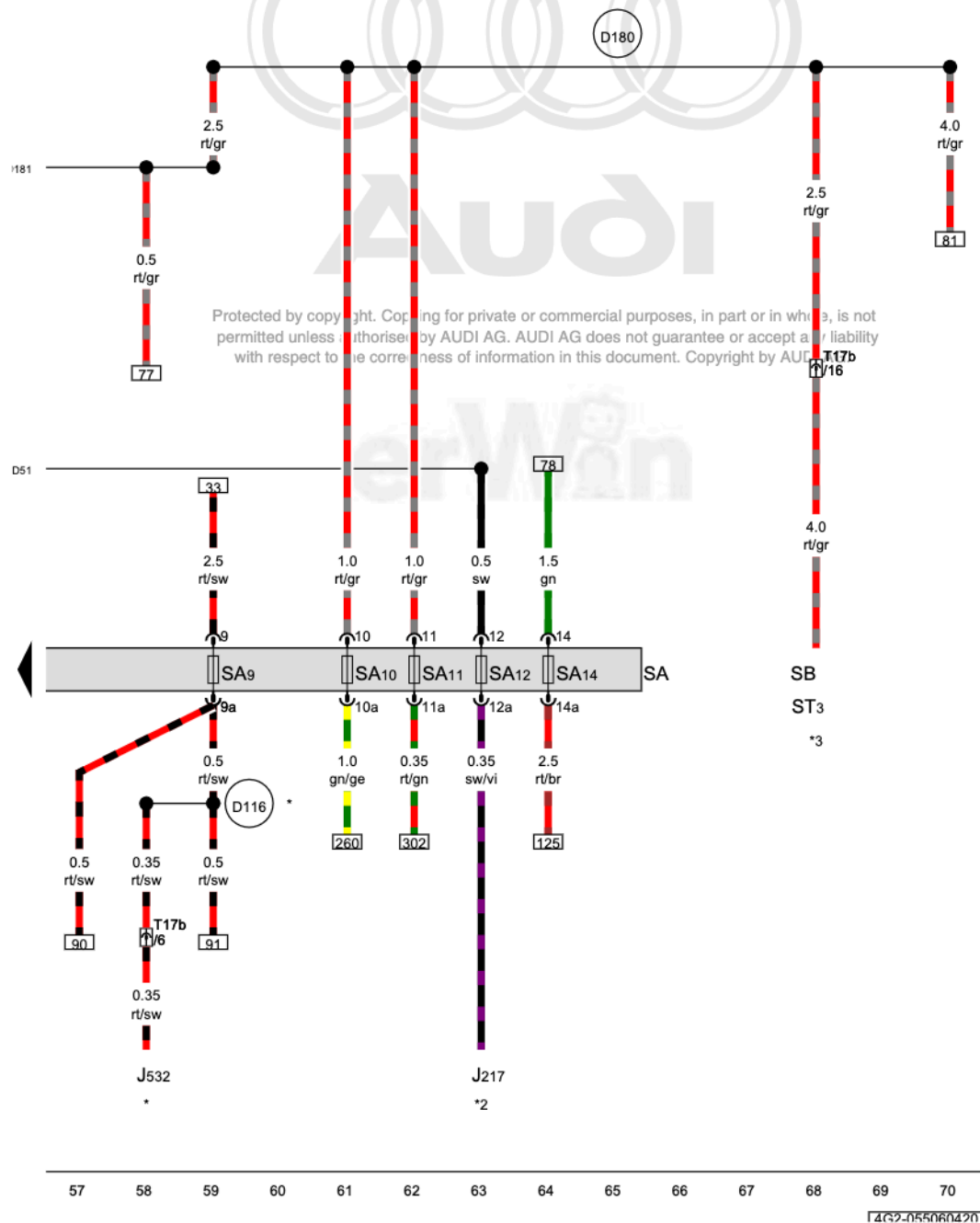
- \* Refer to Applicable Standard Equipment Wiring Diagram
- \*2 Refer to Applicable Wiring Diagram for Fuse Positions
- \*3 Running Change
- \*4 For RHD Vehicles



# Fuse Panel A

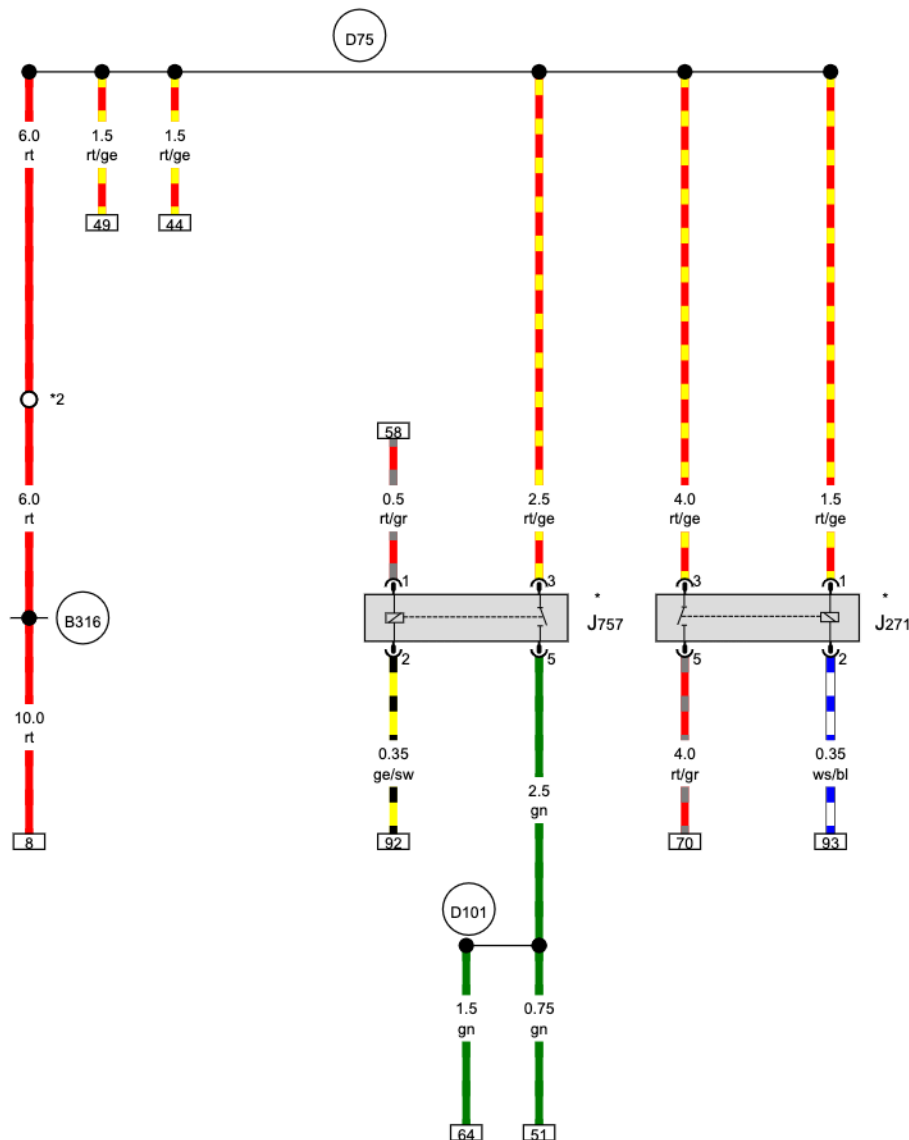
- J217 Transmission Control Module
- SA Fuse Panel A
- ST1 Fuse Panel 1
- SA1 Fuse 1 (On Fuse Panel A)
- SA2 Fuse 2 (On Fuse Panel A)
- SA3 Fuse 3 (On Fuse Panel A)
- SA4 Fuse 4 (On Fuse Panel A)
- SA5 Fuse 5 (On Fuse Panel A)
- SA6 Fuse 6 (On Fuse Panel A)
- SA7 Fuse 7 (On Fuse Panel A)
- SB15 Fuse 15 (On Fuse Panel B)
- T17a 17-Pin Connector, Left Plenum Chamber E-Box Connector Station
- D51 Positive Connection 1 (15) (in Engine/Motor Compartment Wiring Harness)
- D52 Positive Connection (15a) (in Engine/Motor Compartment Wiring Harness)
- D181 Connection 2 (87A) (in Engine/Motor Compartment Wiring Harness)
- \* Refer to Applicable Wiring Diagram for Fuse Positions
- \*2 For Vehicles with a Manual Transmission
- \*3 Refer to Applicable Wiring Diagram for Automatic Transmission
- \*4 Running Change





### Fuse Panel A

- J217 Transmission Control Module
- J532 Voltage Stabilizer
- SA Fuse Panel A
- ST3 Fuse Panel 3
- SA9 Fuse 9 (On Fuse Panel A)
- SA10 Fuse 10 (On Fuse Panel A)
- SA11 Fuse 11 (On Fuse Panel A)
- SA12 Fuse 12 (On Fuse Panel A)
- SA14 Fuse 14 (On Fuse Panel A)
- SB Fuse Panel B
- T17b 17-Pin Connector, Left Plenum Chamber E-Box Connector Station
- D51 Positive Connection 1 (15) (in Engine/Motor Compartment Wiring Harness)
- D116 Connection 14 (in Engine/Motor Compartment Wiring Harness)
- D180 Connection 87A (in Engine/Motor Compartment Wiring Harness)
- D181 Connection 2 (87A) (in Engine/Motor Compartment Wiring Harness)
- \* For Vehicles with Start/Stop System
- \*2 Refer to Applicable Wiring Diagram for Automatic Transmission
- \*3 Refer to Applicable Wiring Diagram for Fuse Positions



# Motronic Engine Control Module Power Supply Relay, Engine Component Power Supply Relay

J271 Motronic Engine Control Module Power Supply Relay  
J757 Engine Component Power Supply Relay

(B316) Positive Connection 2 (30a) (in Main Wiring Harness)

(D75) Positive Connection 2 (30) (in Engine/Motor Compartment Wiring Harness)

(D101) Connection 1 (in Engine/Motor Compartment Wiring Harness)

\* Relay and Fuse Panel in the Plenum Chamber E-Box  
\*2 Threaded Connection in the Plenum Chamber E-Box

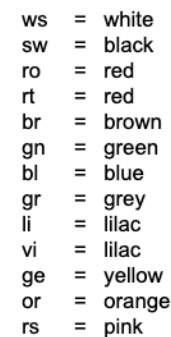


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J623	Engine/Motor Control Module
T94	94-Pin Connector
85	Ground Connection 1 (in Engine/Motor Compartment Wiring Harness)
167	Ground Connection 4 (in Engine/Motor Compartment Wiring Harness)
645	Ground Connection 1 on Bulkhead
D102	Connection 2 (in Engine/Motor Compartment Wiring Harness)
*	Running Change

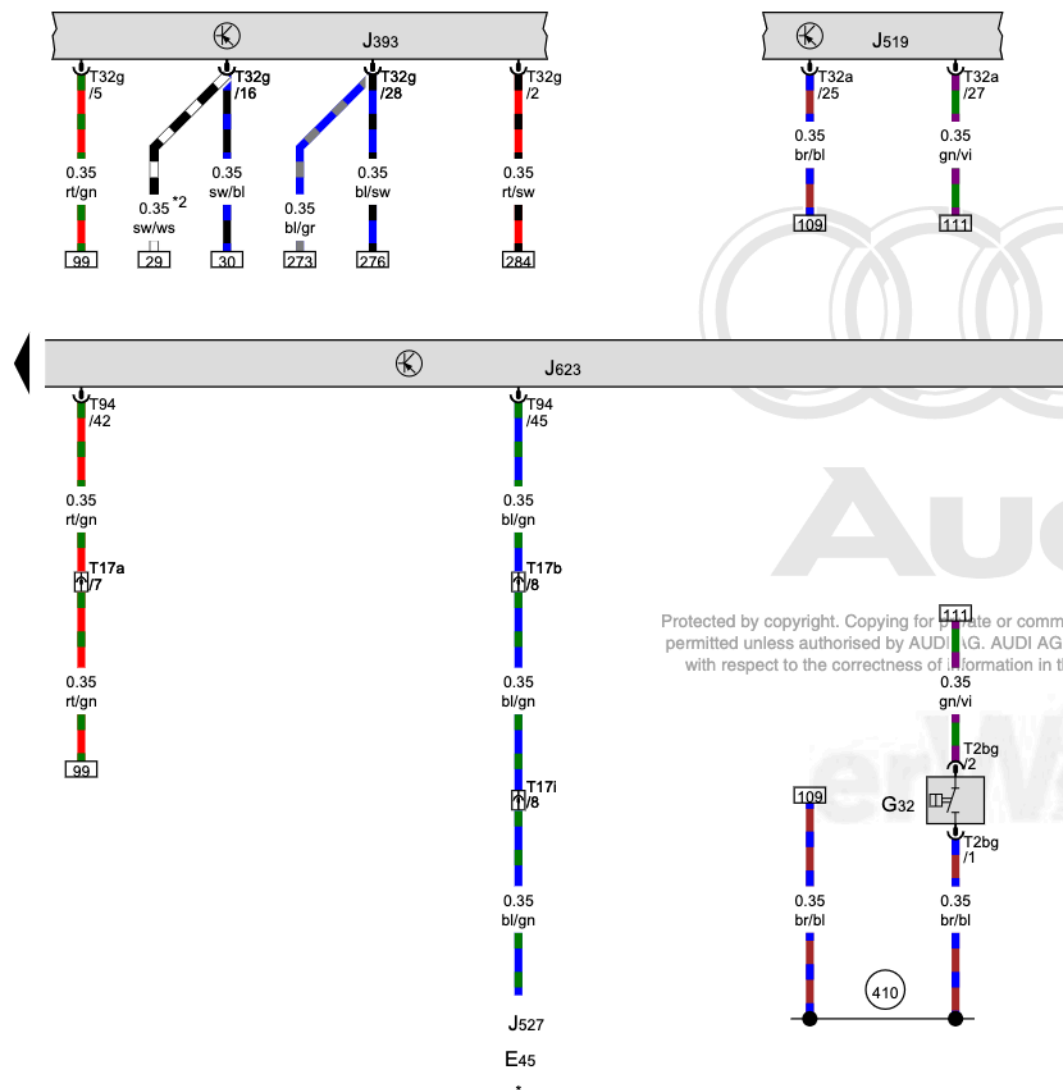


# Engine Coolant Level Sensor, Vehicle Electrical System Control Module, Engine/Motor Control Module

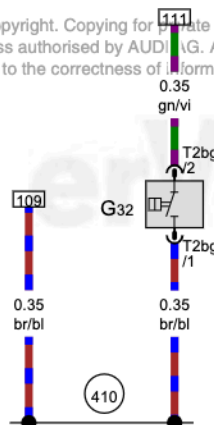
- E45 Cruise Control Switch
- G32 Engine Coolant Level Sensor
- J393 Comfort System Central Control Module
- J519 Vehicle Electrical System Control Module
- J527 Steering Column Electronics Control Module
- J623 Engine/Motor Control Module
- T2bg 2-Pin Connector
- T17a 17-Pin Connector, Left Plenum Chamber E-Box Connector Station
- T17b 17-Pin Connector, Left Plenum Chamber E-Box Connector Station
- T17i 17-Pin Connector, In the Left A-Pillar Connector Station
- T32a 32-Pin Connector
- T32g 32-Pin Connector
- T94 94-Pin Connector

410 Sensor Ground Connection 1 (in Main Wiring Harness)

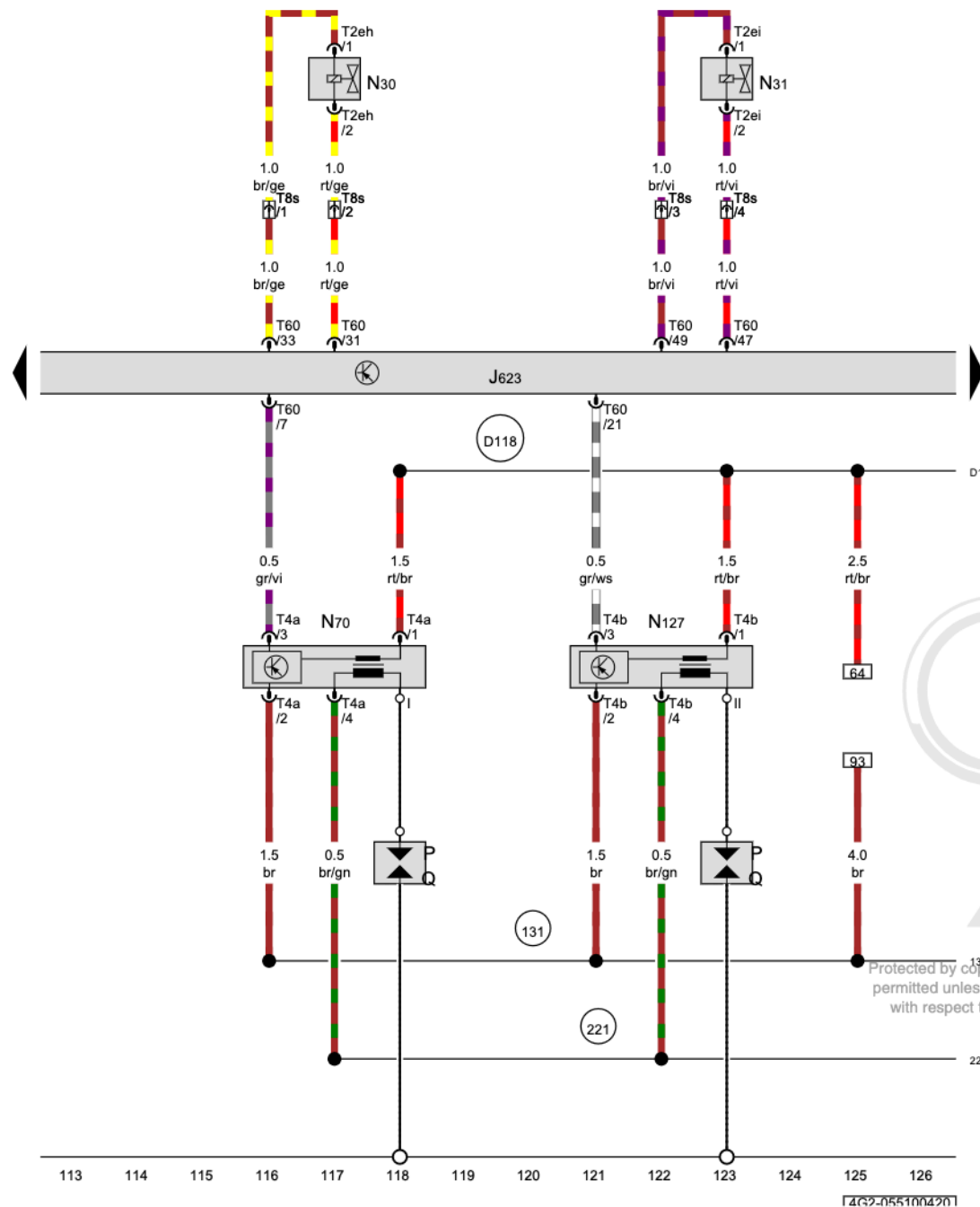
- \* For Vehicles with Cruise Control System
- \*2 For RHD Vehicles



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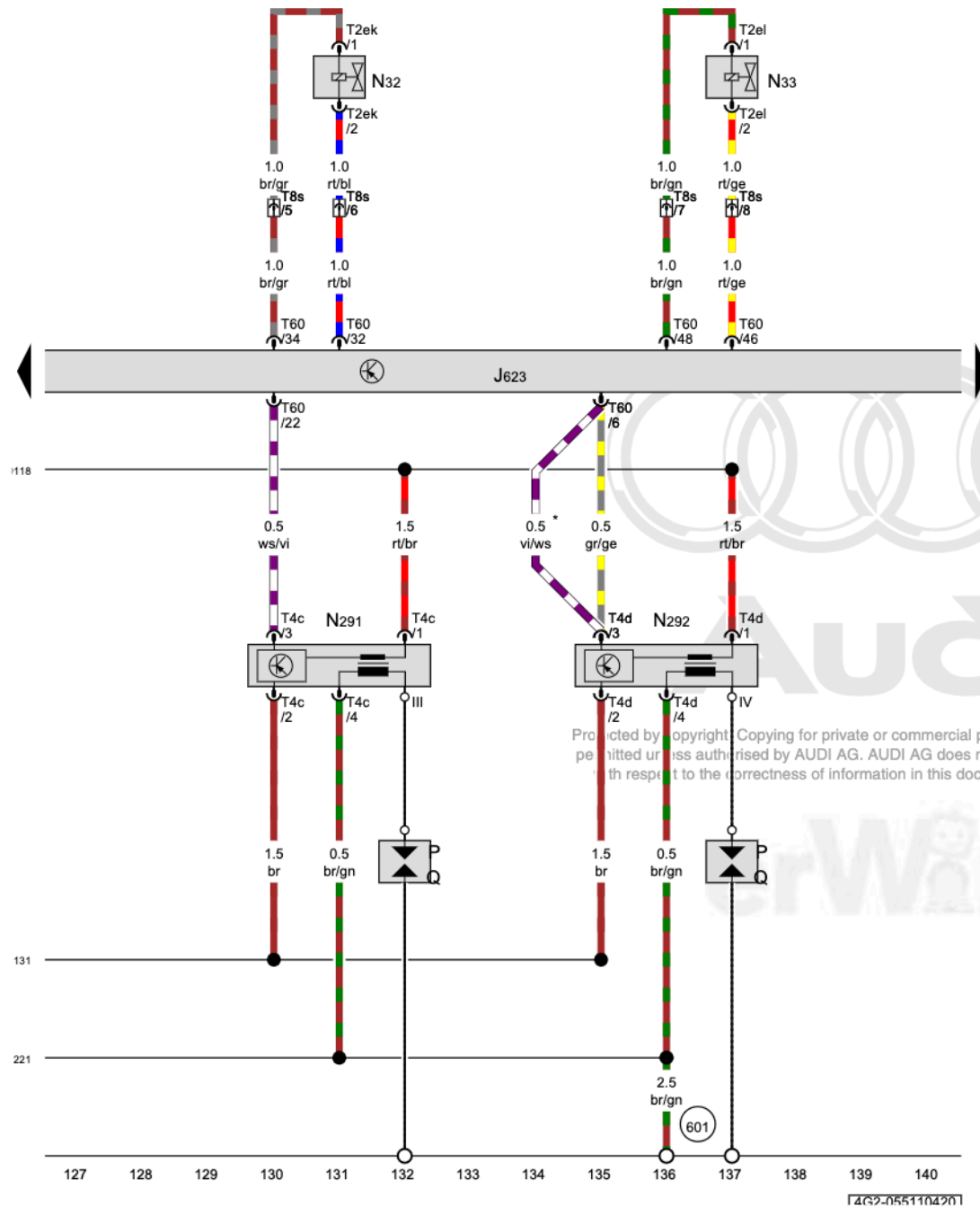
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Engine/Motor Control Module, Cylinder 1 Fuel Injector, Ignition Coil 1 with Power Output Stage, Spark Plug Connectors, Spark Plugs

- J623 Engine/Motor Control Module
- N30 Cylinder 1 Fuel Injector
- N31 Cylinder 2 Fuel Injector
- N70 Ignition Coil 1 with Power Output Stage
- N127 Ignition Coil 2 with Power Output Stage
- P Spark Plug Connectors
- Q Spark Plugs
- T2eh 2-Pin Connector
- T2ei 2-Pin Connector
- T4a 4-Pin Connector
- T4b 4-Pin Connector
- T8s 8-Pin Connector, In the Engine/Motor Compartment, Right
- T60 60-Pin Connector
- 131 Ground Connection 2 (in Engine/Motor Compartment Wiring Harness)
- 221 Engine Ground Connection (in Engine Wiring Harness)
- D118 Connection 16 (in Engine/Motor Compartment Wiring Harness)

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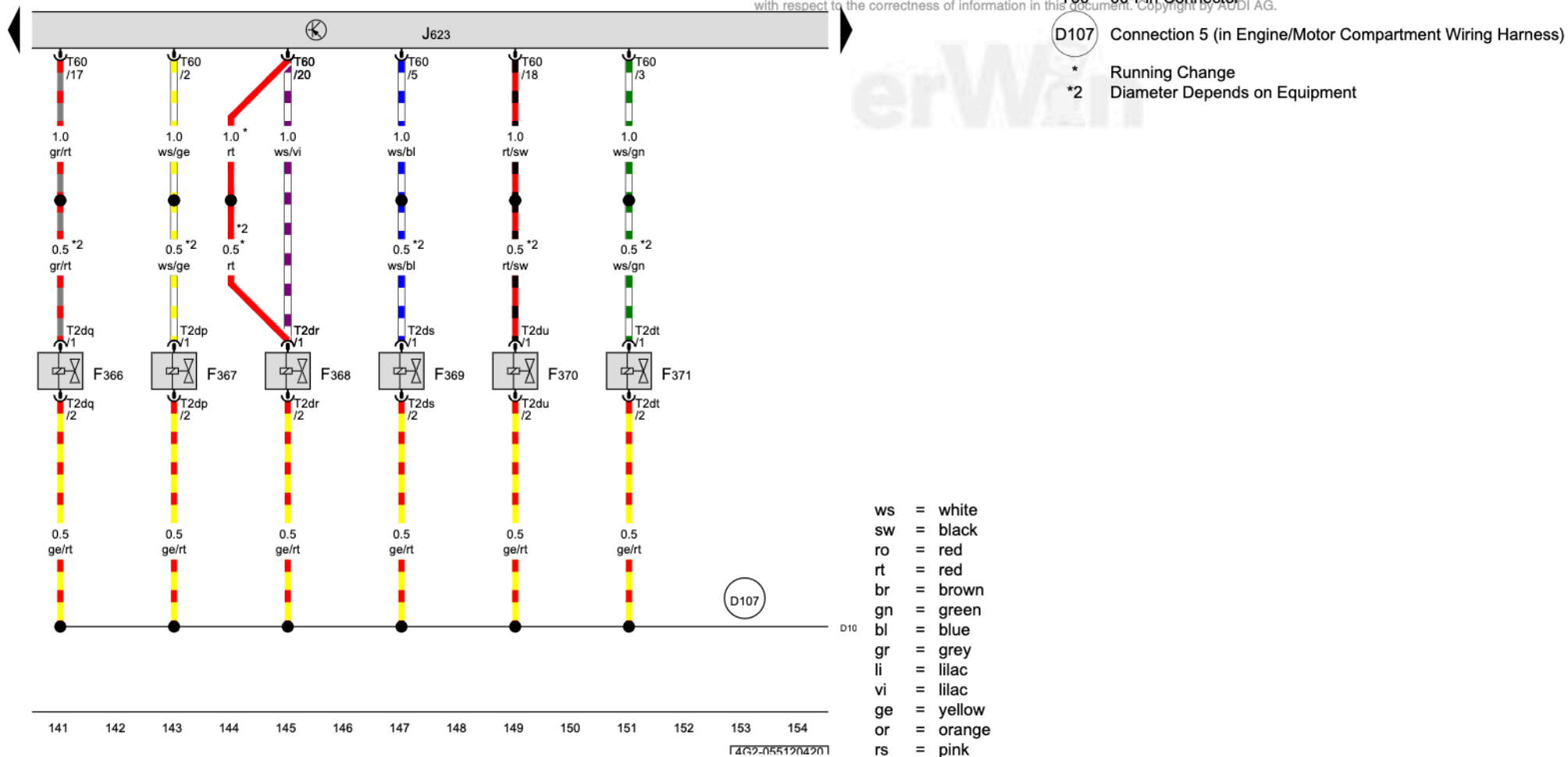
Engine/Motor Control Module, Cylinder 4 Fuel Injector, Ignition Coil 4 with Power Output Stage, Spark Plug Connectors, Spark Plugs

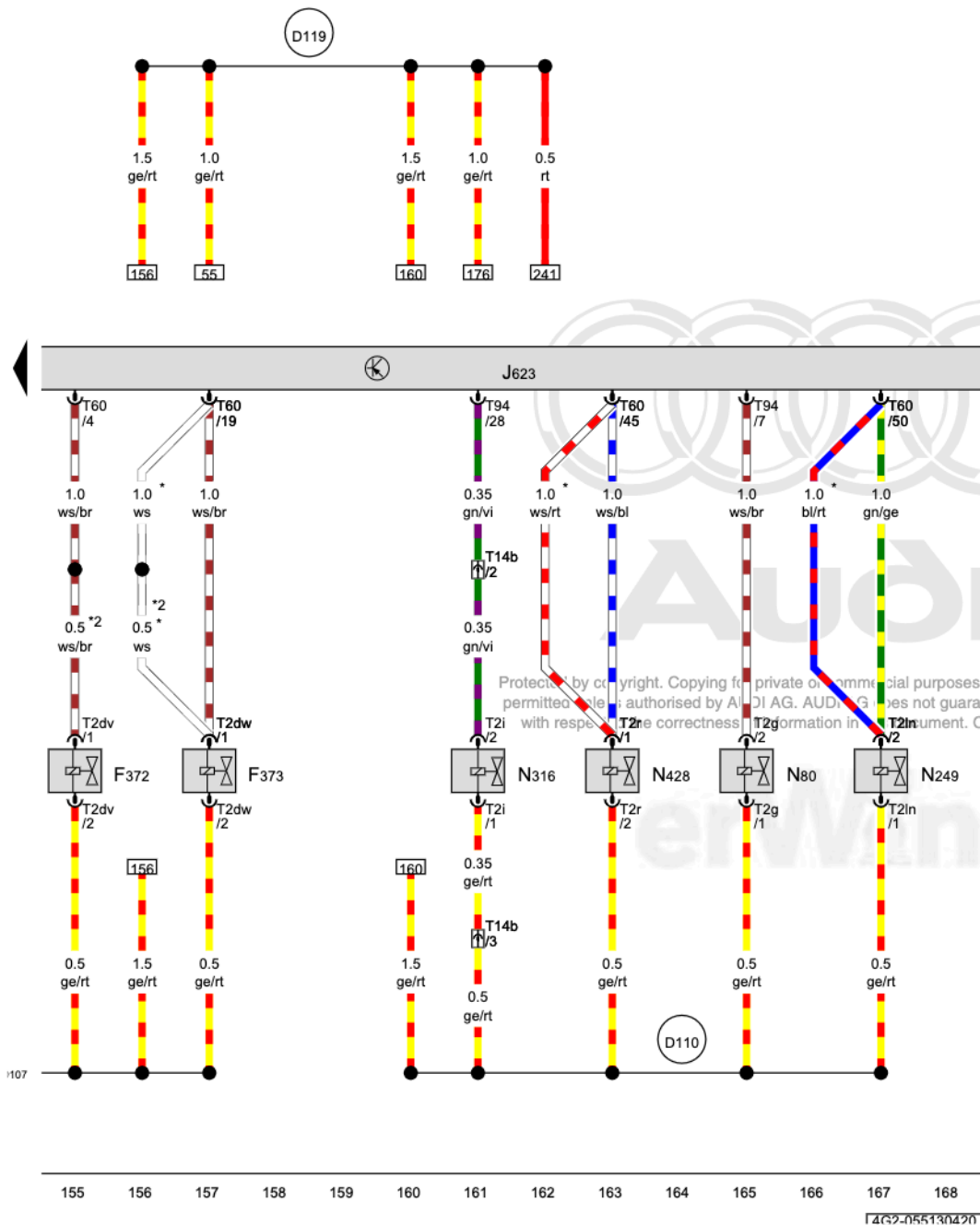
- J623 Engine/Motor Control Module
- N32 Cylinder 3 Fuel Injector
- N33 Cylinder 4 Fuel Injector
- N291 Ignition Coil 3 with Power Output Stage
- N292 Ignition Coil 4 with Power Output Stage
- P Spark Plug Connectors
- Q Spark Plugs
- T2ek 2-Pin Connector
- T2el 2-Pin Connector
- T4c 4-Pin Connector
- T4d 4-Pin Connector
- T8s 8-Pin Connector, In the Engine/Motor Compartment, Right
- T60 60-Pin Connector
- 131 Ground Connection 2 (in Engine/Motor Compartment Wiring Harness)
- 221 Engine Ground Connection (in Engine Wiring Harness)
- 601 Ground Connection on Cylinder Head, Left
- D118 Connection 16 (in Engine/Motor Compartment Wiring Harness)
- \* Running Change

# Cam Adjustment Actuator 2, Engine/Motor Control Module

- F366 Cam Adjustment Actuator 1
- F367 Cam Adjustment Actuator 2
- F368 Cam Adjustment Actuator 3
- F369 Cam Adjustment Actuator 4
- F370 Cam Adjustment Actuator 5
- F371 Cam Adjustment Actuator 6
- J623 Engine/Motor Control Module
- T2dp 2-Pin Connector
- T2dq 2-Pin Connector
- T2dr 2-Pin Connector
- T2ds 2-Pin Connector
- T2dt 2-Pin Connector
- T2du 2-Pin Connector
- T60 60-Pin Connector

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Cam Adjustment Actuator 7, Engine/Motor Control Module, EVAP Canister Purge Regulator Valve 1, Turbocharger Recirculation Valve, Intake Manifold Runner Control Valve, Oil Pressure Regulation Valve

- F372 Cam Adjustment Actuator 7
- F373 Cam Adjustment Actuator 8
- J623 Engine/Motor Control Module
- N80 EVAP Canister Purge Regulator Valve 1
- N249 Turbocharger Recirculation Valve
- N316 Intake Manifold Runner Control Valve
- N428 Oil Pressure Regulation Valve
- T2dv 2-Pin Connector
- T2dw 2-Pin Connector
- T2g 2-Pin Connector
- T2i 2-Pin Connector
- T2ln 2-Pin Connector
- T2r 2-Pin Connector
- T14b 14-Pin Connector, In the Engine/Motor Compartment, Left
- T60 60-Pin Connector
- T94 94-Pin Connector

D107 Connection 5 (in Engine/Motor Compartment Wiring Harness)

D110 Connection 8 (in Engine/Motor Compartment Wiring Harness)

D119 Connection 17 (in Engine/Motor Compartment Wiring Harness)

\* Running Change

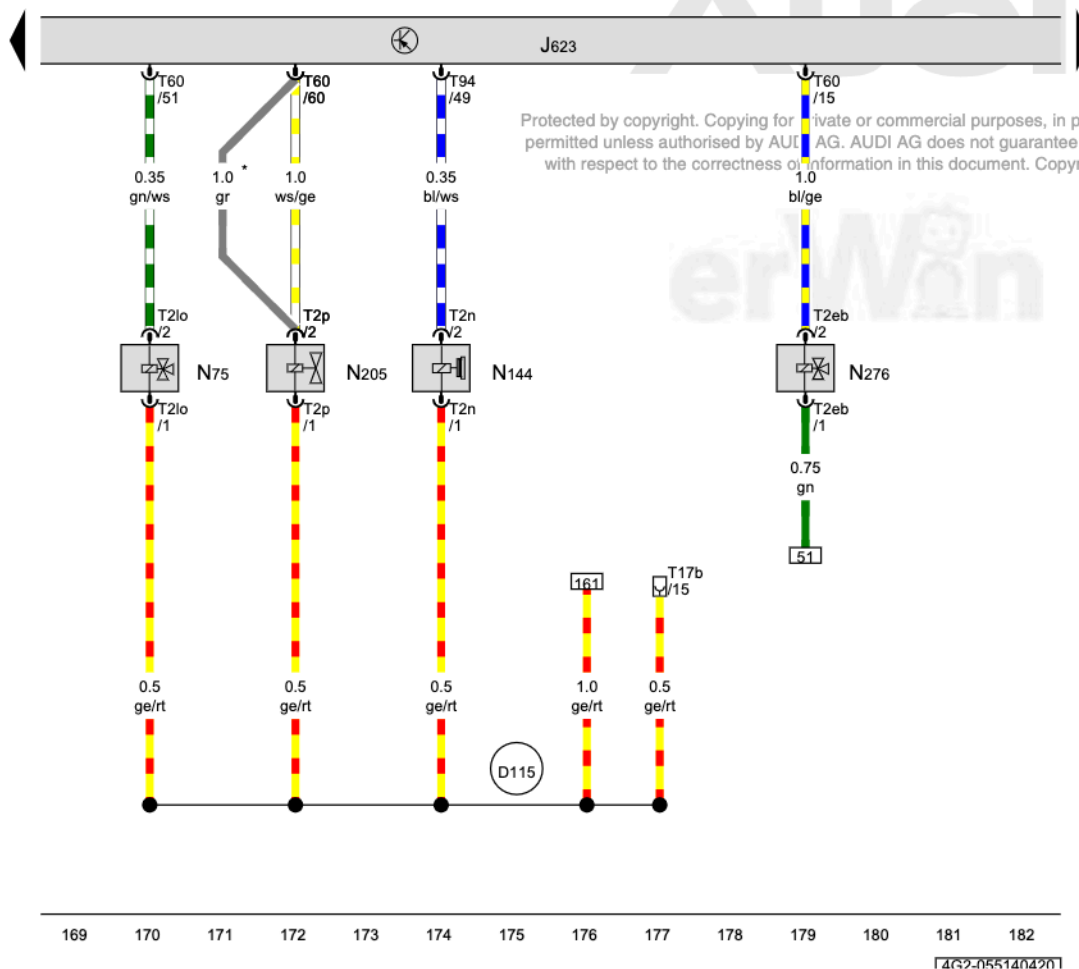
\*2 Diameter Depends on Equipment



Engine/Motor Control Module, Wastegate Bypass  
Regulator Valve, Fuel Pressure Regulator Valve

- J623 Engine/Motor Control Module
- N75 Wastegate Bypass Regulator Valve
- N144 Left Electrohydraulic Engine Mount Solenoid Valve
- N205 Camshaft Adjustment Valve 1
- N276 Fuel Pressure Regulator Valve
- T2eb 2-Pin Connector
- T2lo 2-Pin Connector
- T2n 2-Pin Connector
- T2p 2-Pin Connector
- T17b 17-Pin Connector, Left Plenum Chamber E-Box Connector Station
- T60 60-Pin Connector
- T94 94-Pin Connector
- D115 Connection 13 (in Engine/Motor Compartment Wiring Harness)
- \* Running Change

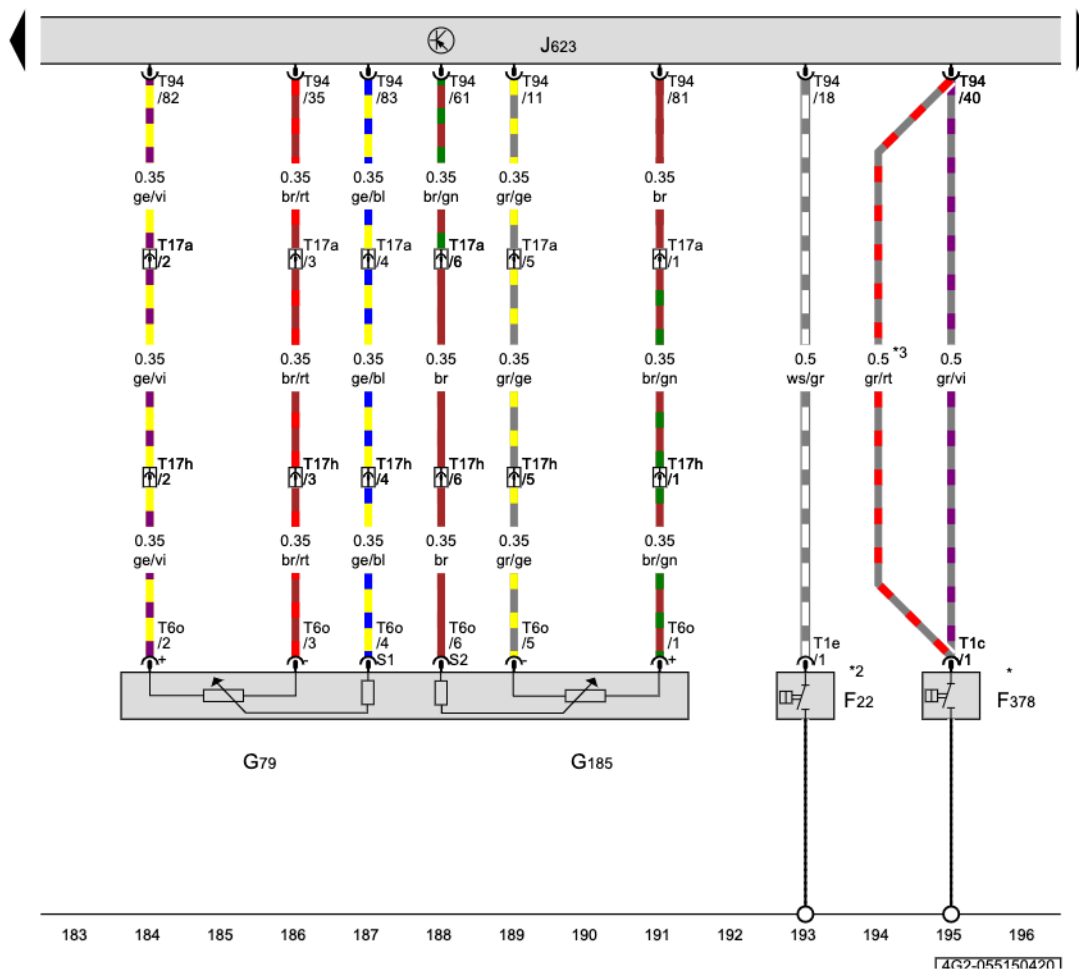
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Oil Pressure Switch, Reduced Oil Pressure Switch, Accelerator Pedal Position Sensor, Engine/Motor Control Module

- F22 Oil Pressure Switch
- F378 Reduced Oil Pressure Switch
- G79 Accelerator Pedal Position Sensor
- G185 Accelerator Pedal Position Sensor 2
- J623 Engine/Motor Control Module
- T1c 1-Pin Connector
- T1e 1-Pin Connector
- T6o 6-Pin Connector
- T17a 17-Pin Connector
- T17h 17-Pin Connector, In the Left A-Pillar Connector Station
- T94 94-Pin Connector
- \* 0.9 Bar
- \*2 2.6 Bar
- \*3 Running Change

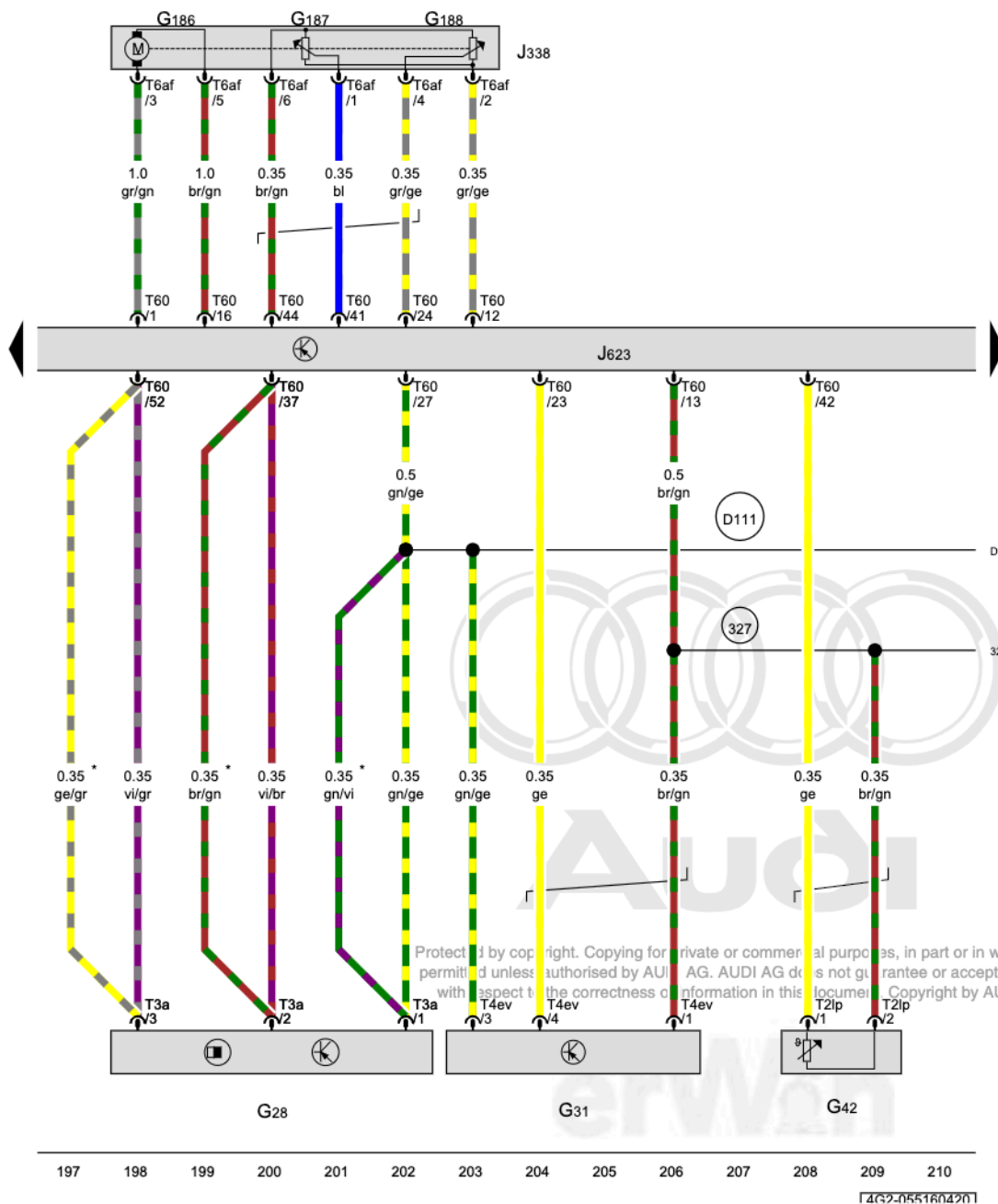


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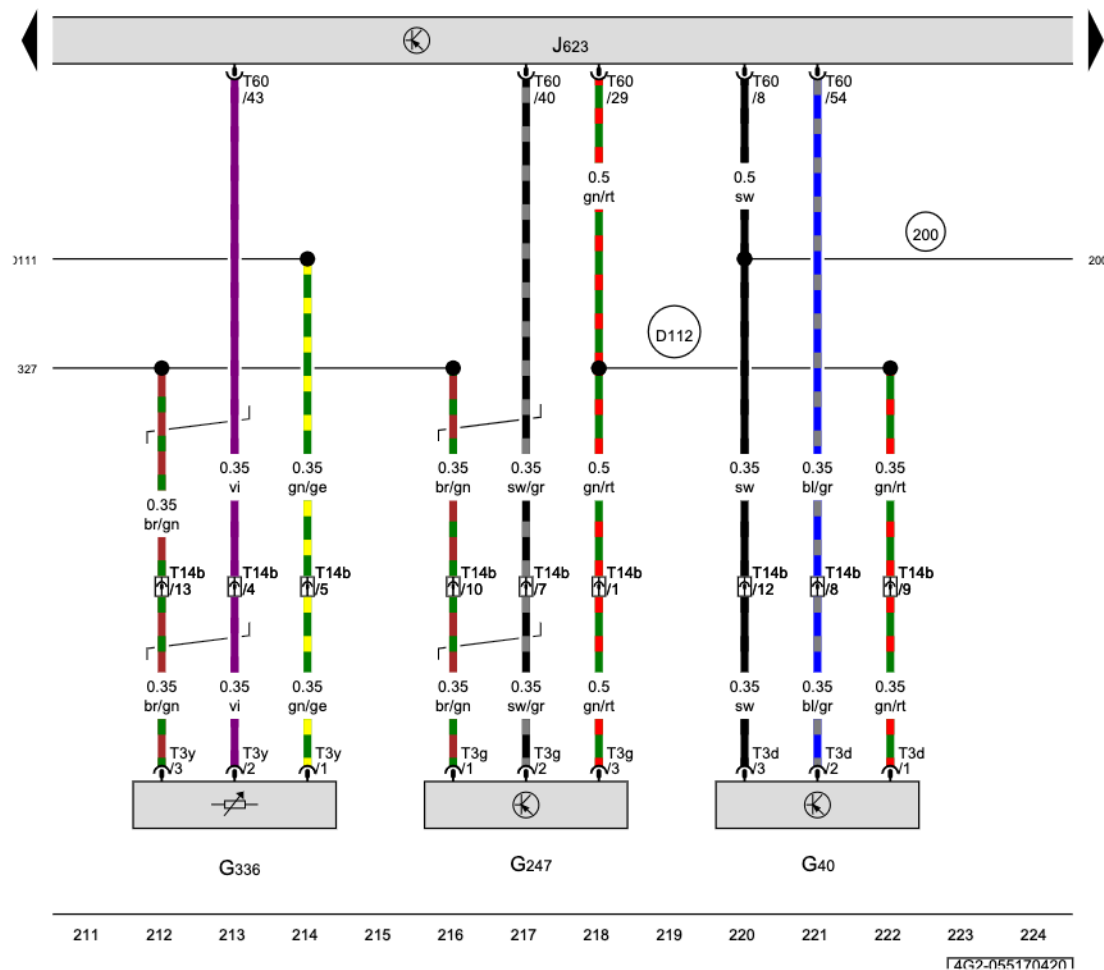
Engine Speed Sensor, Intake Air Temperature Sensor, Throttle Valve Control Module, Engine/Motor Control Module





Camshaft Position Sensor, Fuel Pressure Sensor, Intake Manifold Runner Position Sensor, Engine/Motor Control Module

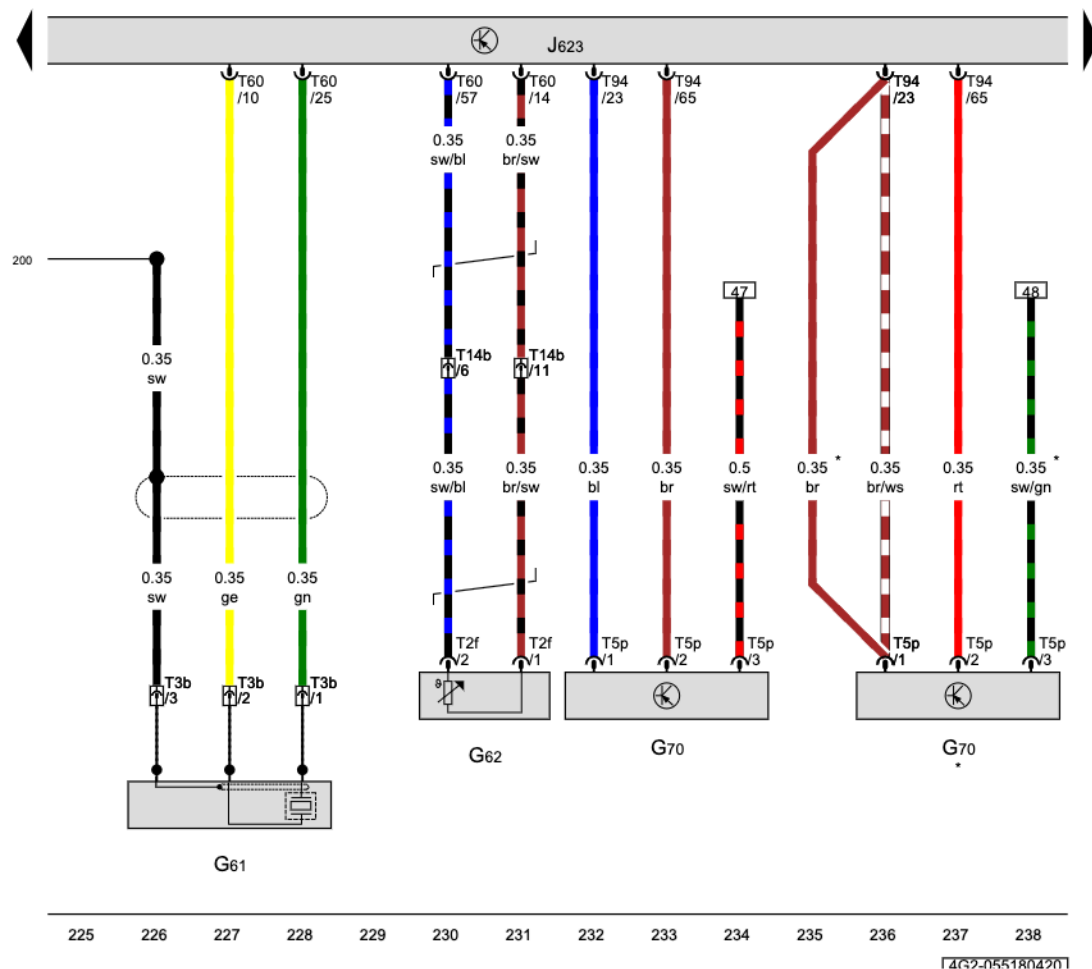
- G40 Camshaft Position Sensor
- G247 Fuel Pressure Sensor
- G336 Intake Manifold Runner Position Sensor
- J623 Engine/Motor Control Module
- T3d 3-Pin Connector
- T3g 3-Pin Connector
- T3y 3-Pin Connector
- T14b 14-Pin Connector, In the Engine/Motor Compartment, Left
- T60 60-Pin Connector
- 200 Ground Connection Shielding (in Engine/Motor Compartment Wiring Harness)
- 327 Sensor Ground Connection (in Engine/Motor Compartment Wiring Harness)
- D111 Connection 9 (in Engine/Motor Compartment Wiring Harness)
- D112 Connection 10 (in Engine/Motor Compartment Wiring Harness)



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Knock Sensor 1, Engine Coolant Temperature Sensor,  
Engine/Motor Control Module

- G61 Knock Sensor 1
- G62 Engine Coolant Temperature Sensor
- G70 Mass Airflow Sensor
- J623 Engine/Motor Control Module
- T2f 2-Pin Connector
- T3b 3-Pin Connector, Green
- T5p 5-Pin Connector
- T14b 14-Pin Connector, In the Engine/Motor Compartment, Left
- T60 60-Pin Connector
- T94 94-Pin Connector
- 200 Ground Connection Shielding (in Engine/Motor Compartment Wiring Harness)
- \* Running Change

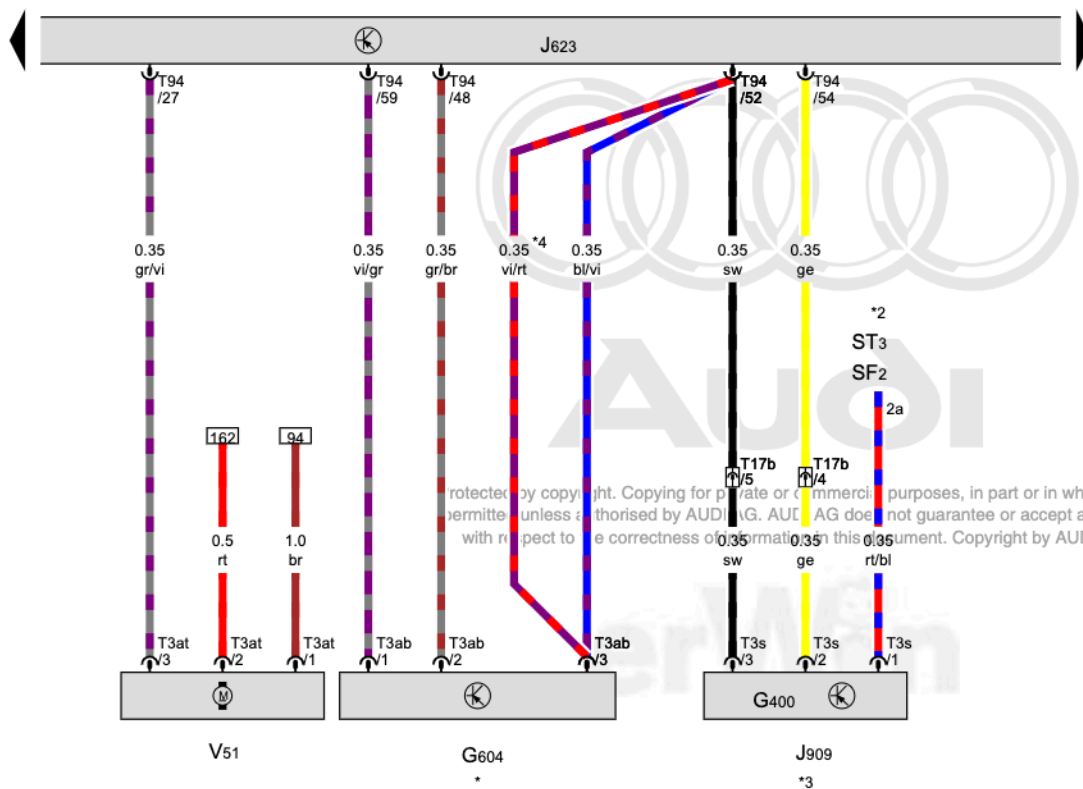


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Gear Recognition Sensor, Engine/Motor Control Module,  
Fuel Tank Leak Detection Control Module

- G400 Fuel Tank Pressure Sensor
- G604 Gear Recognition Sensor
- J623 Engine/Motor Control Module
- J909 Fuel Tank Leak Detection Control Module
- SF2 Fuse 2 (On Fuse Panel F)
- ST3 Fuse Panel 3
- T3ab 3-Pin Connector
- T3at 3-Pin Connector
- T3s 3-Pin Connector
- T17b 17-Pin Connector, Left Plenum Chamber E-Box Connector Station
- T94 94-Pin Connector
- V51 After-Run Coolant Pump
- \* For Vehicles with a Manual Transmission
- \*2 Refer to Applicable Wiring Diagram for Fuse Positions
- \*3 For Vehicles with Fuel System Diagnostic Pump
- \*4 Running Change

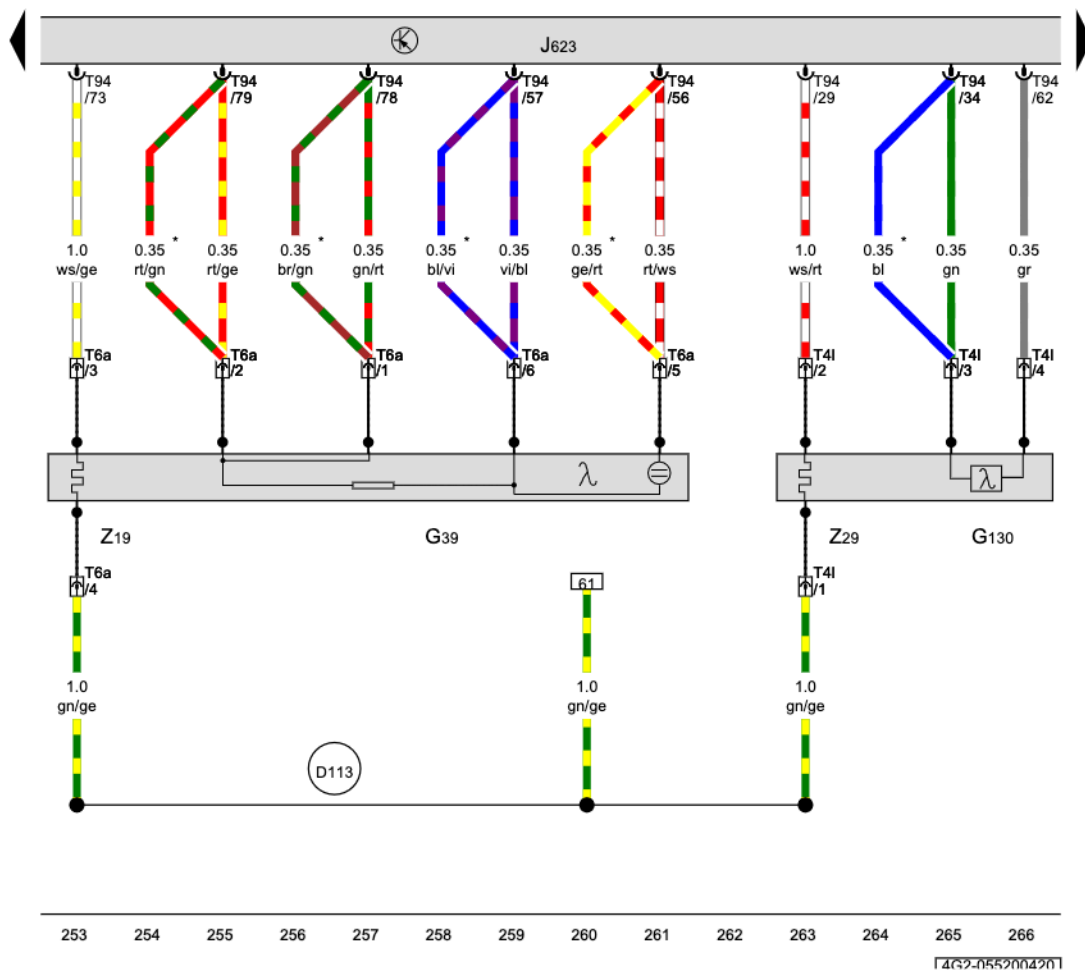


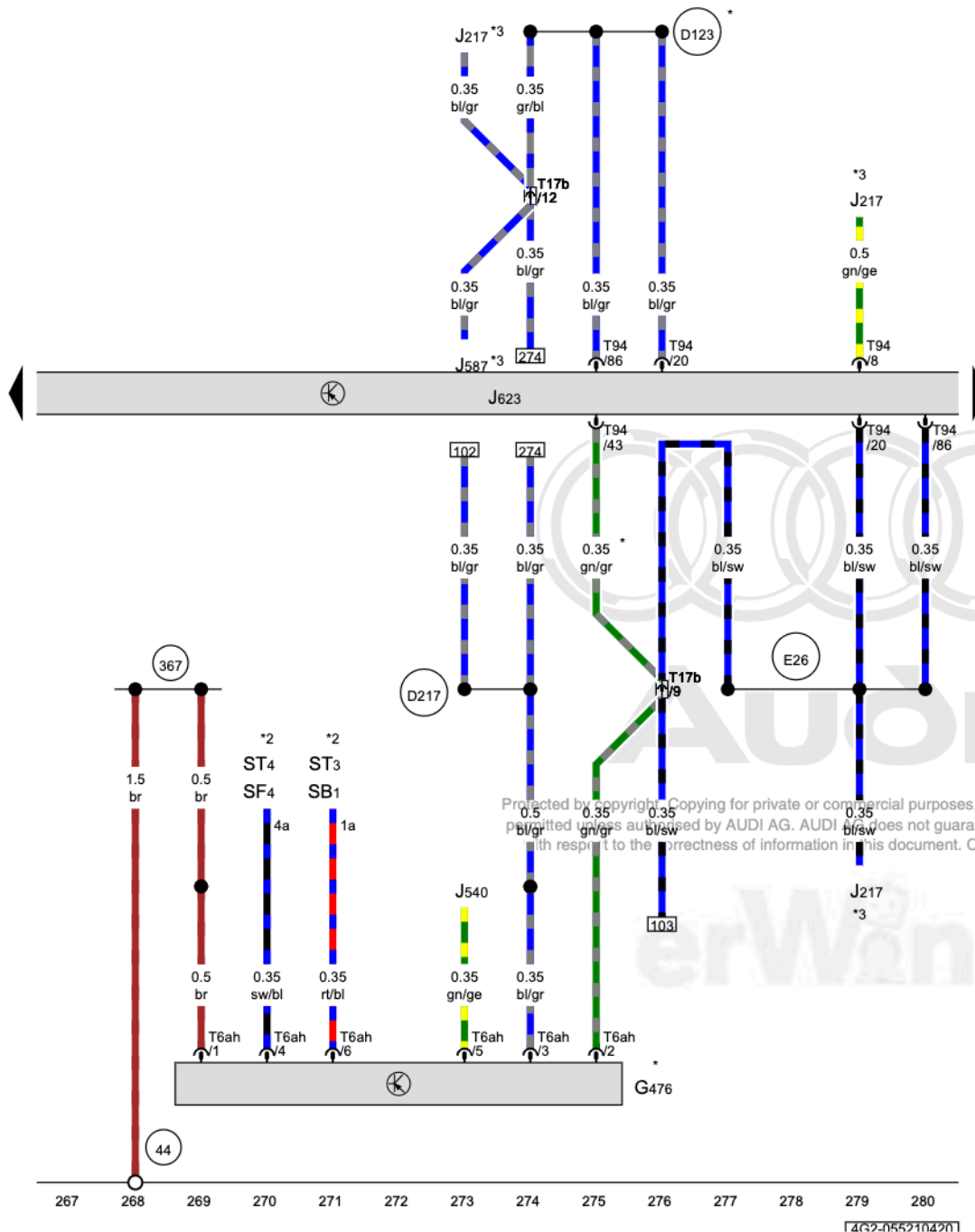
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# Heated Oxygen Sensor, Oxygen Sensor After Catalytic Converter, Engine/Motor Control Module

- G39 Heated Oxygen Sensor
- G130 Oxygen Sensor After Catalytic Converter
- J623 Engine/Motor Control Module
- T4l 4-Pin Connector, Black
- T6a 6-Pin Connector, Black
- T94 94-Pin Connector
- Z19 Oxygen Sensor Heater
- Z29 Heater for Oxygen Sensor 1 After Catalytic Converter
- D113 Connection 11 (in Engine/Motor Compartment Wiring Harness)

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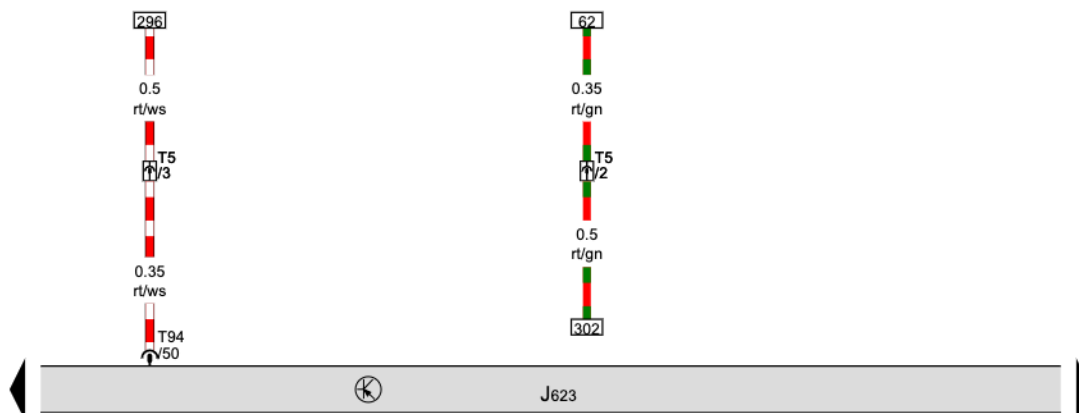
# Clutch Position Sensor, Electromechanical Parking Brake Control Module, Engine/Motor Control Module

- G476 Clutch Position Sensor
- J217 Transmission Control Module
- J540 Electromechanical Parking Brake Control Module
- J587 Selector Lever Sensor System Control Module
- J623 Engine/Motor Control Module
- SB1 Fuse 1 (On Fuse Panel B)
- ST3 Fuse Panel 3
- SF4 Fuse 4 (On Fuse Panel F)
- ST4 Fuse Panel 4
- T6ah 6-Pin Connector
- T17b 17-Pin Connector
- T94 94-Pin Connector

- 44 Ground Connection on A-Pillar, Lower Left
- 367 Ground Connection 2 (in Main Wiring Harness)
- D123 Connection 21 (in Engine/Motor Compartment Wiring Harness)
- D217 Selector Lever P/N Position Connection (in Main Wiring Harness)
- E26 Selector Lever P/N Position Connection (in Motronic Multiform Fuel Injection Wiring Harness)
- \* For Vehicles with a Manual Transmission
- \*2 Refer to Applicable Wiring Diagram for Fuse Positions
- \*3 Refer to Applicable Wiring Diagram for Automatic Transmission

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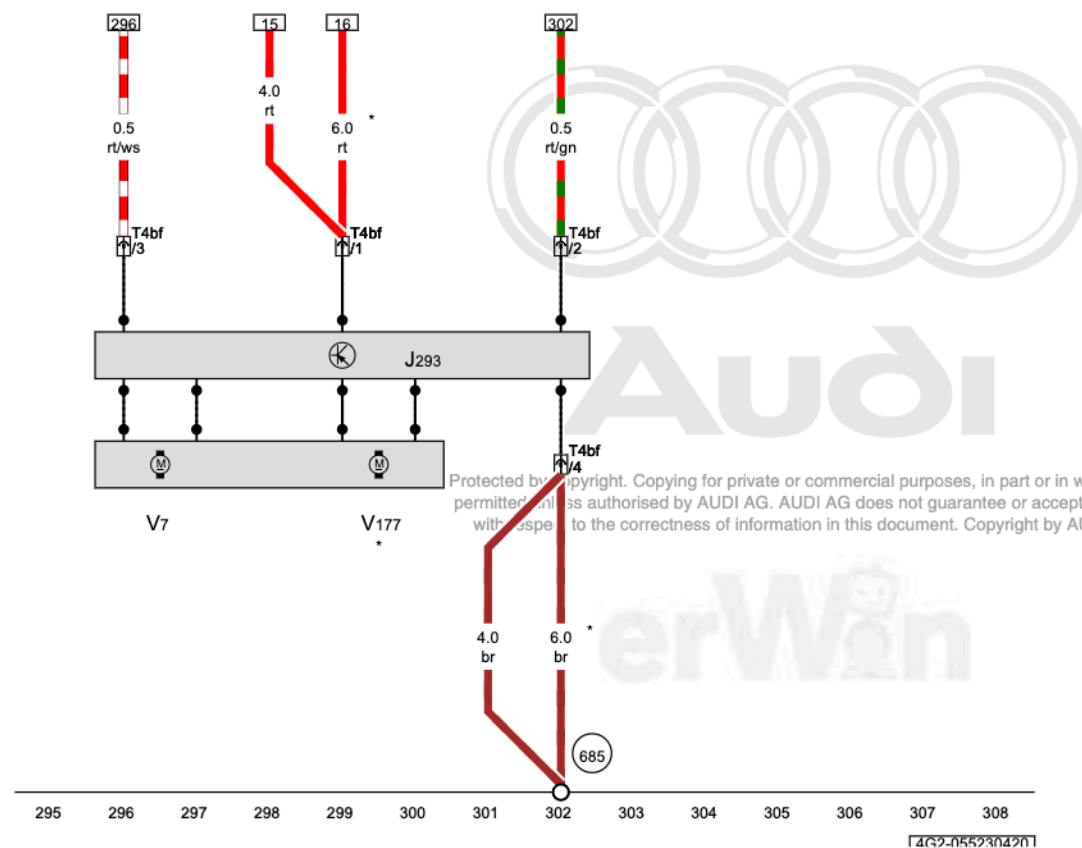


Radiator Fan Control Module, Engine/Motor Control Module, Radiator Fan, Radiator Fan 2

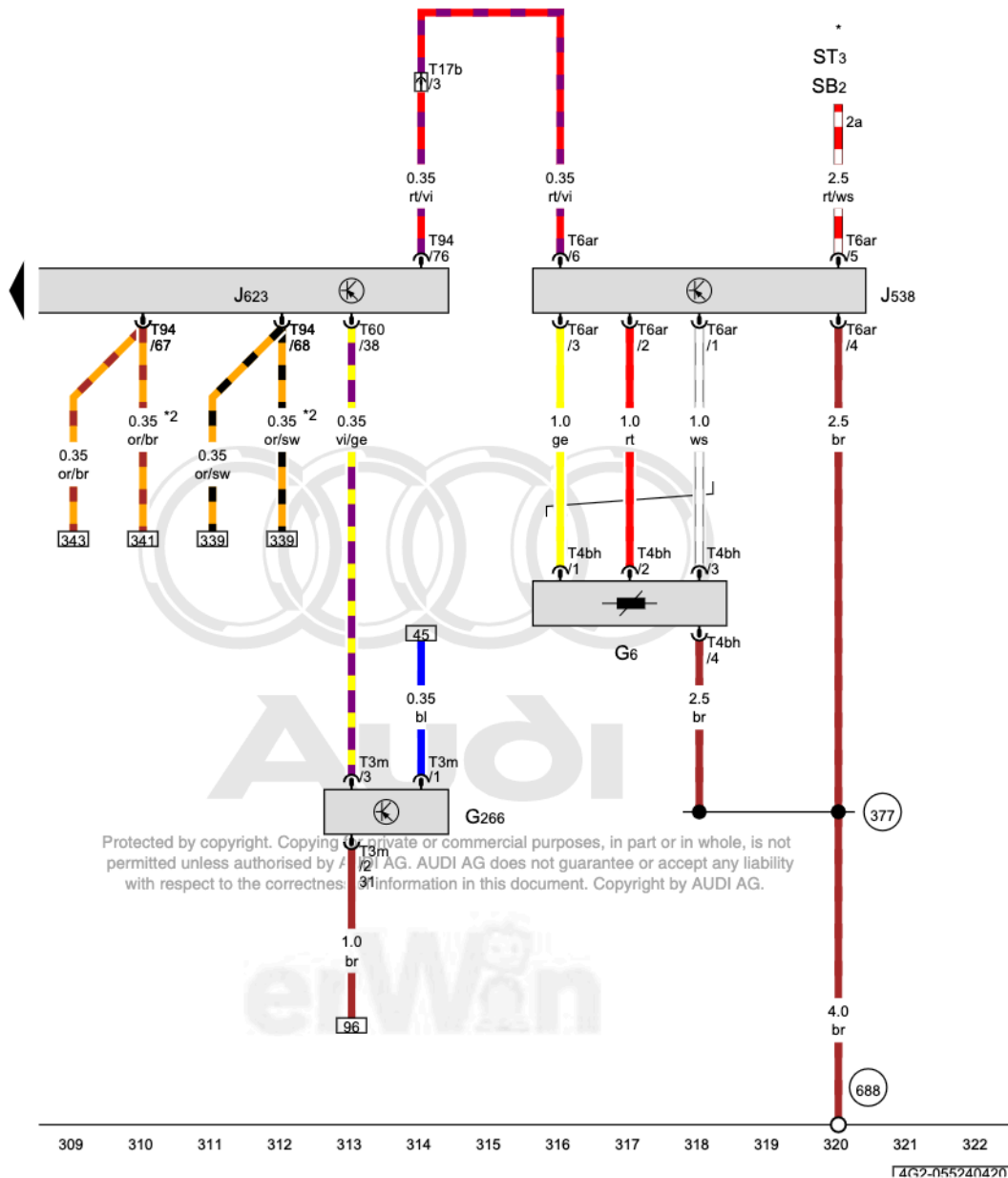
- J293 Radiator Fan Control Module
- J623 Engine/Motor Control Module
- T4bf 4-Pin Connector
- T5 5-Pin Connector, In the Center Plenum Chamber
- T94 94-Pin Connector
- V7 Radiator Fan
- V177 Radiator Fan 2

685 Ground Connection 1 on Right Front Longitudinal Member

\* Depending on Equipment



Transfer Fuel Pump, Oil Level Thermal Sensor, Fuel Pump Control Module, Engine/Motor Control Module



- G6 Transfer Fuel Pump
- G266 Oil Level Thermal Sensor
- J538 Fuel Pump Control Module
- J623 Engine/Motor Control Module
- SB2 Fuse 2 (On Fuse Panel B)
- ST3 Fuse Panel 3
- T3m 3-Pin Connector
- T4bh 4-Pin Connector
- T6ar 6-Pin Connector
- T17b 17-Pin Connector
- T60 60-Pin Connector
- T94 94-Pin Connector

377 Ground Connection 12 (in Main Wiring Harness)

688 Ground Connection 2 on Center Tunnel

- \* Refer to Applicable Wiring Diagram for Fuse Positions
- \*2 For Vehicles with a Manual Transmission

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411	Sensor Ground Connection 2 (in Main Wiring Harness)
A204	Instrument Cluster CAN Bus High Connection (in Instrument Panel Wiring Harness)
A205	Instrument Cluster CAN Bus Low Connection (in Instrument Panel Wiring Harness)
*	Data Bus Wire (CAN Bus)

Data Bus on Board Diagnostic Interface, Powertrain CAN Bus High Wire Junction, Instrument Cluster CAN Bus High Wire Junction 2

